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### 1 [Independent zone routing: an adaptive hybrid routing framework for ad hoc wireless networks](#)

Prince Samar, Marc R. Pearlman, Zygmunt J. Haas

August 2004 IEEE/ ACM Transactions on Networking (TON), Volume 12 Issue 4

Publisher: IEEE Press

Full text available: Pdf (676.93 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 113, Citation Count: 6

To effectively support communication in such a dynamic networking environment as the ad hoc networks, the routing framework has to be adaptable to the spatial and temporal changes in the characteristics of the network, such as traffic and mobility patterns. ...

Keyw ords: ad hoc network, adaptive routing, bordercast, hybrid routing, independent zone routing, multiscope routing, proactive routing, reactive routing, routing framework, routing zone, send zone, zone routing protocol

### 2 [Sinfonia: a new paradigm for building scalable distributed systems](#)



Marcos K. Aguilera, Arif Merchant, Mehul Shah, Alistair Veitch, Christos Karamanolis

October 2007 SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles

Publisher: ACM

Full text available: Pdf (486.35 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 51, Downloads (12 Months): 476, Citation Count: 1

We propose a new paradigm for building scalable distributed systems. Our approach does not require dealing with message-passing protocols -- a major complication in existing distributed systems. Instead, developers just design and manipulate data structures ...

Keyw ords: distributed systems, fault tolerance, scalability, shared memory, transactions, two-phase commit


### 3 [Sinfonia: a new paradigm for building scalable distributed systems](#)



Marcos K. Aguilera, Arif Merchant, Mehul Shah, Alistair Veitch, Christos Karamanolis

October 2007 ACM SIGOPS Operating Systems Review, Volume 41 Issue 6

Publisher: ACM

Full text available:  Pdf (486.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 51, Downloads (12 Months): 476, Citation Count: 1

We propose a new paradigm for building scalable distributed systems. Our approach does not require dealing with message-passing protocols -- a major complication in existing distributed systems. Instead, developers just design and manipulate data structures ...

Keywords: distributed systems, fault tolerance, scalability, shared memory, transactions, two-phase commit

#### 4 [Urban mesh and ad hoc mesh networks](#)

Anders Nilsson Plymoth, Ulf Körner, Per Johansson

March 2008 International Journal of Network Management, Volume 18 Issue 2

Publisher: John Wiley & Sons, Inc.

Full text available:  Pdf (337.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 166, Citation Count: 0

Mesh networking is currently gaining much attention, within both academia and industry. Mesh networking allows cheap and fast deployment of wireless services. It is regarded as a very promising solution for urban deployment scenarios as well as for temporary ...

#### 5 [Jigsaw: solving the puzzle of enterprise 802.11 analysis](#)



Yu-Chung Cheng, John Bellardo, Péter Benkő, Alex C. Snoeren, Geoffrey M. Voelker, Stefan Savage

September 2006 SIGCOMM '06: Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available:  Pdf (1.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 192, Citation Count: 9

The combination of unlicensed spectrum, cheap wireless interfaces and the inherent convenience of untethered computing have made 802.11 based networks ubiquitous in the enterprise. Modern universities, corporate campuses and government offices routinely ...

Keywords: 802.11, measurement, monitoring, wireless networks

#### 6 [Jigsaw: solving the puzzle of enterprise 802.11 analysis](#)



Yu-Chung Cheng, John Bellardo, Péter Benkő, Alex C. Snoeren, Geoffrey M. Voelker, Stefan Savage

August 2006 ACM SIGCOMM Computer Communication Review, Volume 36 Issue 4

Publisher: ACM

Full text available:  Pdf (1.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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Keywords: 802.11, measurement, monitoring, wireless networks

7 [Floodless in seattle: a scalable ethernet architecture for large enterprises](#)



Changhoon Kim, Matthew Caesar, Jennifer Rexford

October 2008 ACM SIGCOMM Computer Communication Review, Volume 38 Issue 4

Publisher: ACM

Full text available: Pdf (436.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 92, Downloads (12 Months): 92, Citation Count: 0

IP networks today require massive effort to configure and manage. Ethernet is vastly simpler to manage, but does not scale beyond small local area networks. This paper describes an alternative network architecture called SEATTLE that achieves the best ...

Key words: enterprise network, ethernet, routing, scalability

8 [Floodless in seattle: a scalable ethernet architecture for large enterprises](#)



Changhoon Kim, Matthew Caesar, Jennifer Rexford

August 2008 SIGCOMM '08: Proceedings of the ACM SIGCOMM 2008 conference on Data communication

Publisher: ACM

Full text available: Pdf (436.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 92, Downloads (12 Months): 92, Citation Count: 0

IP networks today require massive effort to configure and manage. Ethernet is vastly simpler to manage, but does not scale beyond small local area networks. This paper describes an alternative network architecture called SEATTLE that achieves the best ...

Key words: enterprise network, ethernet, routing, scalability

9 [XORs in the air: practical wireless network coding](#)

Sachin Katti, Hariharan Rahul, Wenjun Hu, Dina Katabi, Muriel Médard, Jon Crowcroft

June 2008 IEEE/ACM Transactions on Networking (TON), Volume 16 Issue 3

Publisher: IEEE Press

Full text available: Pdf (960.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 130, Downloads (12 Months): 130, Citation Count: 0

This paper proposes COPE, a new architecture for wireless mesh networks. In addition to forwarding packets, routers mix (i.e., code) packets from different sources to increase the information content of each transmission. We show that intelligently mixing ...

Key words: algorithms, design, network coding, performance, theory, wireless networks

10 [On the development of a IEEE 802.11s mesh point prototype](#)

Rosario G. Garroppo, Stefano Giordano, Davide Iacono, Luca Tavanti

March 2008 TridentCom '08: Proceedings of the 4th International Conference on Testbeds and research infrastructures for the development of networks & communities

Publisher: ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering)

Full text available: Pdf (1.63 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 26, Citation Count: 0

Wireless Mesh Networks are a new, flexible and cost effective access technology that is gaining wide popularity replacing the traditional sets of wired IEEE 802.11 Access Points. Vendors and network operators have developed and deployed their own proprietary ...

Keywords: IEEE 802.11s, experimental testbed, prototype, wireless mesh networks

# 11 [A situatedness-based knowledge plane for autonomic networking](#)

Thomas Bullot, Rida Khatoun, Louis Hugues, Dominique Gaïti, Leila Merghem-Boulahia

March 2008 International Journal of Network Management, Volume 18 Issue 2


Publisher: John Wiley & Sons, Inc.

Full text available:  [Pdf](#) (542.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 118, Citation Count: 0

IP networks, and particularly the Internet, were proposed to be a simple and robust support for homogeneous communications. This implies that only basic control mechanisms have to be performed by network elements. Communication management has to be performed ...

# 12 [Towards automated provisioning of secure virtualized networks](#)

 Serdar Cabuk, Chris I. Dalton, HariGovind Ramasamy, Matthias Schunter

October 2007 CCS '07: Proceedings of the 14th ACM conference on Computer and communications security

Publisher: ACM


Full text available:  [Pdf](#) (325.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 44, Downloads (12 Months): 485, Citation Count: 1

We describe a secure network virtualization framework that helps realize the abstraction of Trusted Virtual Domains (TVDs), a security-enhanced variant of virtualized network zones. The framework allows groups of related virtual machines running on separate ...

Keywords: automated security provisioning, network security, network virtualization, security policies, trusted virtual domains

# 13 [Nsclick: bridging network simulation and deployment](#)

 Michael Neufeld, Ashish Jain, Dirk Grunwald

September 2002 MSWiM '02: Proceedings of the 5th ACM international workshop on Modeling analysis and simulation of wireless and mobile systems

Publisher: ACM


Full text available:  [Pdf](#) (279.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 66, Citation Count: 10

Ad hoc network protocols are often developed, tested and evaluated using simulators. However, when the time comes to deploy those protocols for use or testing on real systems the protocol must be reimplemented for the target platform. This usually results ...

Keywords: ad hoc, click, ns, simulation

# 14 [MOLAR: adaptive runtime support for high-end computing operating and runtime systems](#)

 Christian Engelmann, Stephen L. Scott, David E. Bernholdt, Narasimha R. Gottumukkala, Chokchai Leangsuksun, Jyothish Varma, Chao Wang, Frank Mueller, Aniruddha G. Shet, P. Sadayappan

April 2006 ACM SIGOPS Operating Systems Review, Volume 40 Issue 2

Publisher: ACM

Full text available:  [Pdf](#) (522.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 52, Citation Count: 1

MOLAR is a multi-institutional research effort that concentrates on adaptive, reliable, and efficient operating and runtime system (OS/R) solutions for ultra-scale high-end scientific computing on the next generation of supercomputers. This research ...

Keyw ords: RAS, availability, fault tolerance, group membership, high-end computing, monitoring, reliability

#### 15 Mesh technology enabling ubiquitous wireless networks: invited paper



Guido R. Hiertz, Sebastian Max, Erik Weiß, Lars Berlemann, Dee Denteneer, Stefan Mangold  
August 2006 W I CON '06: Proceedings of the 2nd annual international workshop on Wireless internet

Publisher: ACM

Full text available: Pdf (470.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 642, Citation Count: 0

Today's wireless networking technology provides high data rates. With IEEE 802.11n products, data rates beyond 500<sup>Mb</sup>/s are soon feasible for *Wireless Local Area Network (WLAN)*. Due to a standstill in standardization the project ...

Keyw ords: IEEE 802.11s, IEEE 802.15.5, IEEE 802.16j, WLAN, WMAN, WPAN, wireless mesh networks

#### 16 Link synchronous mobile IPv4 handover algorithms

James Kempf, Ajoy Singh, Jonathan Wood, Atsushi Takeshita, Nat Natarajan  
May 2006 Wireless Networks, Volume 12 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: Pdf (1.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 138, Citation Count: 0

The performance of the base Mobile IP handover algorithm for moving the Mobile Node's network layer point of attachment from one subnet to another has been recognized as a potential performance bottleneck for some time. In this paper, we discuss a collection ...

Keyw ords: 802.11, IS-2000, fast handover, handover performance, mobile IPv4

#### 17 Flow labelled IP over ATM: design and rationale



Greg Minshall, Bob Hinden, Eric Hoffman, Fong Ching Liaw, Tom Lyon, Peter Newman  
July 2006 ACM SIGCOMM Computer Communication Review, Volume 36 Issue 3

Publisher: ACM

Full text available: Pdf (260.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 66, Citation Count: 0

We describe a system in which layer 2 switching is placed directly under the control of layer 3 routing protocols on a hop-by-hop basis. Specifically, ATM switching is controlled by IP. We couple each ATM switch with a general purpose computer running ...

Keyw ords: ATM, GSMP, IFMP, IP, IP switching, flow labelled IP, epsilon

#### 18 Mobile networking in the Internet

Charles E. Perkins  
December 1998 Mobile Networks and Applications, Volume 3 Issue 4



Publisher: ACM

Full text available: Pdf (166.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 325, Citation Count: 9

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for ...

19 [A survey of peer-to-peer content distribution technologies](#)

Stephanos Androutsellis-Theotokis, Diomidis Spinellis

December 2004 ACM Computing Surveys (CSUR), Volume 36 Issue 4

Publisher: ACM

Full text available: Pdf (517.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 194, Downloads (12 Months): 2278, Citation Count: 45

Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

20 [Two-way admission control and resource allocation for quality of service support in location-aided mobile ad hoc networks](#)

S. Sivavakeesarer, G. Pavlou

January 2006 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 10 Issue 1

Publisher: ACM

Full text available: Pdf (459.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 109, Citation Count: 0

This paper proposes a new QoS-aware medium access control (MAC) protocol in mobile ad hoc networks (MANETs). This takes the unique challenges of MANETs into consideration, and works in conjunction with the location-based forwarding strategy. This novel ...

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